QC ABSTRACT

Nameof Work: Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	Materials	–	1	1	Pass
2	M20	3.09 Cum	1	1	Pass
3	Steel	0.25 Tone	1	1	Pass
4	Stainless Steel	13.60 Sqm	1	1	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/AR/W.No.14/2022-23 Date: 13.07.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**
AGENCY	:	**Sri Ameenreddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		June - 2022
DATE OF TESTING		11.07.2022 to 13.07.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	325 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50 %	-

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Job No.: CACE/BBMP/AR/W.No.14/2022-23 Date : 13.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Agency : Sri Ameenreddy, Contractor, Bangalore.

Name of Work : Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Date of Testing : 13.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	93	9.30	9.30	90.7	90-100
2.36	127	12.70	22.00	78.0	75-100
1.18	175	17.50	39.50	60.5	55-90
600 Micron	169	16.90	56.40	43.6	35-59
300 Micron	225	22.50	78.90	21.1	8-30
150 Micron	137	13.70	92.60	7.4	0-10

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Date : 13.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri Ameenreddy, Contractor, Bangalore.**

Name of Work : Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Date of Testing : 13.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	183	3.7	3.7	96.3	95-100
10	2413	48.3	51.9	48.1	25-55
4.75	1925	38.5	90.4	9.6	0-10

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Job No.: CACE/BBMP/AR/W.No.14/2022-23 Date : 13.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Agency : Sri Ameenreddy, Contractor, Bangalore.

Name of Work : Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Date of Testing : 13.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	190	1.27	1.27	98.73	95-100
20	8236	54.91	56.17	43.83	30-70
10	3214	21.43	77.60	22.40	10-35
4.75	2855	19.03	96.63	3.37	0-5

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Date : 13.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Agency : Sri Ameenreddy, Contractor, Bangalore.

Name of Work : Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Date of Testing : 13.07.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	41	4.10	5.70	94.3	70-100
600 Micron	85	8.50	14.20	85.8	40-100
300 Micron	242	24.20	38.40	61.6	5-70
150 Micron	483	48.30	86.70	13.3	0-15

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Job No: CCACE/BBMP/AR/W.No.14/2022-23

Date 13.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Agency : Sri Ameenreddy, Contractor, Bangalore.

Name of Work : Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Date of Testing 13.07.2022

Material : Plastering Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	25	2.50	2.50	97.5	95-100
2.36	31	3.10	5.60	94.4	95-100
1.18	52	5.20	10.80	89.2	90-100
600 Micron	85	8.50	19.30	80.7	80-100
300 Micron	265	26.50	45.80	54.2	20-65
150 Micron	485	48.50	94.30	5.7	0-15

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Date :13.07.2022

Job No.: CACE/BBMP/AR/W.No.14/2022-23

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

AGENCY : **Sri Ameenreddy, Contractor, Bangalore.**

Name of Work : Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Steel Dia/Length : 8mm,10mm," Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test :13.07.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.399	555	642	1.16	14
2	TMT	10	0.622	562	651	1.16	14.5

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Job No.: CACE/BBMP/AR/W.No.14/2022-23 Date: 25.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri Ameenreddy, Contractor, Bangalore.**

Name of the work : Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2022	25.07.2022	8.188	345.2	15.34
2	18.07.2022	25.07.2022	8.165	339.3	15.08
3	18.07.2022	25.07.2022	8.146	326.2	14.50

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Job No.: CACE/BBMP/AR/W.No.14/2022-23

Date: 15.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: Sri Ameenreddy, Contractor, Bangalore.**
Name of the work	: Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2022	15.08.2022	8.168	502.2	22.32
2	18.07.2022	15.08.2022	8.188	516.3	22.95
3	18.07.2022	15.08.2022	8.150	484.6	21.54

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Job No.: CACE/BBMP/AR/W.No.14/2022-23 Date 22.09.2022

TEST REPORT OF PHYSICAL PROPERTIES OF STAINLESS STEEL

Client **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency **Sri Ameenreddy, Contractor, Bangalore.**

Name of Work Maintenance of Dasarahalli Zonal Office in Bagalagunte Ward No.14,BBMP,Bangalore.

Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: 22.09.2022

Tensile Test:

Nominal size (dia in mm)	50mm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	265	200 Min
Tensile strength (N/mm^2)	452	400 Min
Elongation, percent in Min in 50mm	41	40 Min

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